CLAIMS

What is claimed is:

1   1.   A method for synchronizing multimedia data having

2 at least audio and text sequences, comprising:

3   dividing the audio sequence into at least one audio data

4 group;

5   synchronizing a current audio data group of said at

6 least one audio data group to a nearest time mark; and

7   associating said current audio data group to a number of

8 a word in the text sequence corresponding to said current

9 audio data group.

1   2.   The method of claim 1, wherein size of each of said

2 at least one audio data group is a multiple of audio frame

3 size.

1   3.   The method of claim 1, wherein an interval of the

2 time mark is substantially similar in size as that of each of

3 said at least one audio data group.

1   4.   The method of claim 3, wherein said associating

2 said current audio data group includes associating said group

3 to a number not used by any word in the text sequence when

4 word size is larger than the size of each of said at least

5 one audio data group or when the current audio data group has

6 a gap in the text sequence.

1   5.   The method of claim 4, wherein said number includes

2 zero.

1   6.   The method of claim 1, wherein the size of each of

2 said at least one audio data group is 100 milliseconds.

1   7.   A method for synchronizing a text sequence with an

2 audio sequence, comprising:

3   arranging the audio sequence into a plurality of audio

4 data groups;

5   synchronizing a current audio data group of said at

6 least one audio data group to a nearest time mark;

7   associating said current audio data group to a number of

8 a word in the text sequence corresponding to said current

9 audio data group; and

10   packetizing said plurality of audio data groups along

11 with associated word numbers.

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1   8.   The method of claim 7, wherein said packetizing

2   includes sequentially packing said plurality of audio data

3   groups and said associated word numbers into at least one

4   packet.

1   9.   The method of claim 8, wherein a first packet of

2   said at least one packet also includes the text sequence.

1   10. A computer readable medium containing executable

2   instructions which, when executed in a processing system,

3   causes the system to perform multimedia data synchronization,

4   comprising:

5   dividing the audio sequence into at least one audio data

6   group;

7   synchronizing a current audio data group of said at

8   least one audio data group to a nearest time mark; and

9   associating said current audio data group to a number of

10 a word in the text sequence corresponding to said current

11 audio data group.

1   11. The computer readable medium of claim 10, further

2   comprising:

3   packetizing said plurality of audio data groups along

4   with associated word numbers.

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1   12.   A multimedia data synchronization system,

2 comprising:

3   means for dividing audio data into at least one audio

4 data group;

5   means for synchronizing a current audio data group of

6 said at least one audio data group to a nearest time mark;

7 and

8   means for associating said current audio data group to a

9 number of a word in text data corresponding to said current

10 audio data group.

1   13.   The system of claim 12, further comprising:

2   means for packetizing said plurality of audio data

3 groups along with associated word numbers.

1   14.   A multimedia system, comprising:

2   a processor to divide audio data into at least one audio

3 data group, said processor configured to synchronize a

4 current audio data group of said at least one audio data

5 group to a nearest time mark; and

6   a correlator to associate said current audio data group

7 to a number of a word in text data corresponding to said

8 current audio data group.

1   15.   The system of claim 14, further comprising:

2   an encoder to pack said plurality of audio data groups

3   along with associated word numbers into a plurality of data

4   packets.

1   16.   The system of claim 15, wherein a first packet of

2   said plurality of data packets includes the text data.

1   17.   The system of claim 15, further comprising:

2   a transmitter to transmit said plurality of data packets

3   to a destination node; and

4   a receiver to receive said plurality of data packets

5   from a source node.

1   18.   The system of claim 17, further comprising:

2   a decoder to unpack said plurality of audio data groups

3   along with associated word numbers, said decoder providing

4   said plurality of audio data groups to a processor in the

5   destination node, such that said decoder arranges each of

6   said plurality of audio data groups to be synchronized to a

7   word in the text data.